

**Course Objectives/Course Outline
Spokane Community College**

Course Title: Disease Transmission and control

Prefix and Course Number: SURG 120

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Differentiate between types of microorganisms
- Identify methods of growth control
- Determine appropriate sterilization techniques
- Describe the Epidemiology of various diseases

1. Course Outline:

- I. Introduction/Contributions
 - A. Individual contributions
 - B. Theories of Abiogenesis and Biogenesis
 - C. Tyndallization
 - D. Pasteurization
 - E. Fields of Microbiology
 - F. Identification systems for microorganisms
- II. Definitions
- III. Bacteria/Rickettsiae/Chlamydia
 - A. Characteristics
 - B. Morphology
 - C. Spores
 - D. Phases of bacterial growth
 - E. Symptoms and treatment of Bacterial infections
- IV. Protozoa
 - A. Characteristics
 - B. Diseases, Symptoms and Treatments
- V. Fungi
 - A. Characteristics
 - B. Diseases, Symptoms and Treatments
- VI. Virus
 - A. Characteristics
 - B. Diseases, Symptoms and Treatments
- VII. Infection Control
 - A. Nosocomial Infections
 - B. Standard Precautions
 - C. Definitions/Terminology
 - D. Epidemiology
 - E. Inflammatory Response
 - F. Immunizations
- VIII. Allergies
 - A. Atopic Allergies
 - B. Anaphylactic Reactions